

Weekly Report

2017.09.11-2017.09.17

1. This Week

Summarization Form

Task	Progress	Finish Time
Waveline	System: Interface design finished. Revise the design coding and the rotor angle half matrix. Paper: Evaluation section left.	Before VIS
NSVA (Network Security)	All functions finished. The system was tested on Sunday. A few bugs were found. Liangjun and Wenlong are working on that.	9.17
Survey	Reorganize the materials.	10.30?
Foundation Material	Not started yet.	10.30
Summary Material	Have a first version but is too short. More materials need to be added.	10.7

NSVA (Network Security)

1. Discuss with the group about how to fix the existed bugs and how to design the analysis logic.
2. Arrange the revise process. All system functions have been finished. But bugs were found when we test on Sunday. A few have been revised and some are left.

Wavelines

- Revise the waveline system, including:
 - Revise the design of the rotor angle half matrix into combination of animation and small multiples
 - Calculate the difference matrix of the rotor angle half matrix by using the method of approved KL divergence. (Coding part.)
 - Confirm the interface design and put it onto the system.
 - The paper part is delayed because the evaluation cannot start once the system interface coding is finished.
- Having meetings to discuss about the design revisement and system details.
- Finish the first version of the summary material. But more content need to be added in it.
- Discuss with Dr. Huang about the requirements and research directions on Friday, including:
 - Dr. Huang likes the orthogonal layout of power grid and recommend using it in their projects.
 - There's an urgent need to solve the system efficiency problem to put the system into use.
 - Discuss about mining patterns through the rotor angle half matrix.
 - Two future directions are discussed: Intermediate process visualization of power flow calculation, Deep learning aided pattern mining of power grid images.
 - Dr. Huang is now doing the textualization work of power grid status in case we need to start the textual visual analysis direction.

- Need to make a project summarization PPT after the summary material.

Others

1. Write the group introduction document.

2. TODO

1. Revise the waveline system and paper.
2. Revise the summary material.
3. Finish the NSVA project and its PPT.